

TABLE 3-1
SUMMARY OF GROUNDWATER AND BEDROCK INVESTIGATIONS

REMEDIAL INVESTIGATION REPORT
STRATFORD ARMY ENGINE PLANT
STRATFORD, CONNECTICUT

| INVESTIGATION DESCRIPTION | YEAR | CONTRACTOR | METHOD | SITE LOCATION | EXPLORATION IDENTIFICATIONS | COMMENTS |
|---|--|-------------------|---|---------------------------------------|--|--|
| Phase I RI | June 1992 | Woodard - Clyde | Monitoring Well Installation and Sampling | Facility-Wide | Location IDs beginning with "WC-" | 15 Monitoring Wells to test for presence/absense of contamination |
| | | | | | Location IDs beginning with "PZ-" | 10 piezometers to gather groundwater level data |
| | | | | | STW -1 and STW-2 | 2 Stilling Wells to monitor tidal influences at the site |
| Phase II RI | December 1994 to January 1995 | Woodard - Clyde | Monitoring Well Installation and Sampling | Facility-Wide | Location IDs beginning with "WC-" | 11 Monitoring Wells at 5 locations to help define extent, degree, & rate of migration of potential contaminants & help identify potential health risks posed by contaminated groundwater and sediments on site |
| Phase III RI | May and November 1999 | URSGWC | GeoProbe and Vibra-Drill | Facility-Wide | Location IDs beginning with "DP-" | 30 direct push borings with GeoProbe and 9 pushes with a Vibra-Drill for VOC groundwater screening and assessment of contaminant impact on the tidal flats |
| | March to April 1999 and October to November 1999 | URSGWC | Montioring Well Sampling | Facility-Wide | Location IDs beginning with "WC-" | 24 Monitoring Wells to better define groundwater conditions |
| | July and August 1999 | URSGWC | Tidal Study | Facility-Wide | | 34 Monitoring Wells, 3 Surface Water Stilling Wells to observe tidal influences, groundwater elevations, and hydraulic gradients |
| | November 1999 | URSGWC | Slug Testing | Facility-Wide | | 34 Monitoring Wells to determine ability of saturated zone to transmit water |
| | July and August 1999 | URSGWC | Seepage Meter Pilot Study | Tidal Mud Flats | | 4 Seepage Meters to determine groundwater and surface water interaction in mudflats |
| Phase III RI | March, April 1999 | URSGWC | Bedrock Borings | Facility-Wide | WC2-2D, WC2-3D, WC5-1D | 3 Bedrock wells to identify depth, lithology, and competence of bedrock |
| Preliminary Chromium Plating Facility Investigation | August 1998 | FosterWheeler/HLA | GeoProbe | Chromium Plating Facility | WP-98-01 and WP-98-02 | 2 GeoProbe water locations to test for chromium |
| Focused Chromium Plating Facility Investigation | January, February 1999 | FosterWheeler/HLA | GeoProbe | Vicinity of Chromium Plating Facility | Location IDs beginning with "PZ-" | 13 Piezometers around Chromium Plating Facility to determine groundwater physical parameters and water quality |
| | January 1999 | FosterWheeler/HLA | GeoProbe | Vicinity of Chromium Plating Facility | Location IDs WP-99-01 through WP-99-32 | 32 Sampling locations to test for chromium; 182 total water samples |
| | February 1999 | FosterWheeler/HLA | Monitoring Well Sampling | Vicinity of Chromium Plating Facility | | Sample for VOCs |

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| VOC Focused Groundwater Investigation | March 1999 | FosterWheeler/HLA | GeoProbe | Facility-Wide | Locations IDs WP-99-33 through WP-99-72 | 40 Locations and 126 water samples to help delineate extent of VOC contamination |
| | March 1999 | FosterWheeler/HLA | Montioring Well Installation and Sampling | Selected locations | | To test for VOC contamination |
| | April, May 1999 | FosterWheeler/HLA | Cone Penitrometer | Facility-Wide | Location IDs CP-99-01 through CP-99-18 | 18 locations to test groundwater for VOC contamintation |
| Operable Unit 2 NCRA | August 1999 | FosterWheeler/HLA | Piezometer Installation and Sampling | Chromium Plating Facility | PZ-99-01 through PZ-99-03 | 7 piezometers in 3 borings to collect groundwater for treatability testing |
| | August 1999 | FosterWheeler/HLA | Extraction Well Installation and Sampling | Chromium Plating Facility | EW-99-01 | Aquifer testing performed within the Chromium Plating Facility |
| | September 1999 | FosterWheeler/HLA | Aquifer Pump Test | Chromium Plating Facility | | To evaluate zone of capture, estimate aquifer boundaries, and assess tidal influences in area of VOC and Chromium contamination |
| Causeway and Dike NCRA | September , October 1999 | FosterWheeler/HLA | Monitoring Well Installation and Sampling | Causeway | MWCD-99-01A, MWCD-99-01B, MWCD-99-02A, MWCD-99-02B | 4 Monitoring Wells to assess groundwater quality and to gather hydrogeologic infomration in vicinity of tidal flats |
| Additional RI Investigations | November 2001 | Harding ESE | Monitoring Well Installation and Sampling | Facility-Wide | Location IDs beginning with "HESE-01-" | 16 Monitoring Wells to asses VOC contamination |
| | April 2002 | Harding ESE | Piezometer Installation and Sampling | Tidal Mud Flats | Location IDs beginning with "PZ-TF-" | 16 Piezometers installed in tidal mud flats to assess VOC contamination migration toward the tidal flats |
| | 2001 and 2002 | NAE | Piezometer Installation and Sampling | Tidal Mud Flats | Location IDs befinning with "D-" | 28 Hand-drive piezometers to test for VOC contamination migrating into and beneath the tidal flats |

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